

CLAIMS:

- 1 1. A multimedia network system for inter-connecting a number of receiving and
2 transmitting digital and/or analogous devices, the network system comprising:
 - 3 ▪ a number of receiving and/or transmitting terminals to be connected to said
 - 4 digital and/or analogous devices,
 - 5 ▪ application specific connector arrangements for connecting said digital and/or
 - 6 analogous devices to said terminals, and
 - 7 ▪ at least one of said connector arrangements being arranged to transmit and/or
 - 8 receive data, said at least one connector arrangement containing data at least
 - 9 about required bandwidth, identification and receiving/transmitting device data
 - 10 format.
- 1 2. The network system of claim 1, wherein said connector arrangements are
2 connected to said terminals through identical interfaces.
- 1 3. The network system of claim 1, comprising a control logic, for handling one or
2 several of:
 - 3 ▪ bandwidth allocation request,
 - 4 ▪ group connection set-up,
 - 5 ▪ group address setting,
 - 6 ▪ network status indication,
 - 7 ▪ connection status indication, and
 - 8 ▪ Terminal initiation.
- 1 4. The network system of claim 3, wherein said control logic is provided in at least
2 one of said terminals and/or at least one of said connector arrangements.
- 1 5. The network system of claim 4, wherein said control logic provided in at least one
2 connector arrangement being a transmitting connector, handles one or several of:
 - 3 ▪ bandwidth allocation request,
 - 4 ▪ group connection set-up,
 - 5 ▪ network status indication, and
 - 6 ▪ connection status indication.

- 1 6. The network system of claim 4, wherein said control logic is provided in a least
2 one connector arrangement being a receiving connector handling at least one of:
3 ▪ group address setting,
4 ▪ network status indication, and
5 ▪ connection status indication.
- 1 7. The network system of claim 5, wherein said terminal handles at least one of
2 ▪ network status indication,
3 ▪ connection status indication, and
4 ▪ terminal initiation at power-up or after disconnection of connector
5 arrangements.
- 1 8. The network system of claim 1, wherein a group of said connector arrangements
2 consists of one transmitting and at least one receiving connector arrangements
3 having same identity.
- 1 9. The network system of claim 8, wherein said identity is user and/or at least partly
2 pre-defined by means of an identification means.
- 1 10. The network system of claim 1, wherein the output from a connector arrangement
2 connecting a transmitter device is adapted into a digital format, supported by a
3 source port of a network transceiver in a terminal.
- 1 11. The network system of claim 10, wherein the adaptation is done in a transmitter
2 adaptation, which is in one side connected to an output of the transmitter and in
3 other side to a source port of the network transceiver in the terminal.
- 1 12. The network system of claim 11, wherein an adapted data, when inserted into the
2 network, is captured in said Terminals in the network using an appropriate
3 receiver connector arrangement where it is adapted back into an original format
4 and delivered to a receiver device.
- 1 13. The network system of claim 12, wherein the adapted data stream from a
2 transmitter device is captured in the terminal and adapted back in an receiver

3 adaptation in the receiver connector arrangement and delivered to a receiver
4 device.

1 14. The network system of claim 1, wherein signals from several devices are
2 transmitted simultaneously through the network.

1 15. The network system of claim 1, wherein each connector arrangement comprises an
2 identification set arrangement to configure receivers to corresponding transmitters.

1 16. The network system of claim 1, wherein a connector arrangement comprises
2 means to receive an analogue signal, means for converting said signal to a digital
3 signal and means to transmit said digital signal on said network.

1 17. The network system of claim 1, wherein a connector arrangement comprises
2 means to receive an digital signal from said network, means for converting said
3 signal to an analogue signal and means to couple said analogue signal to an
4 analogue device.

1 18. The network system of claim 16, wherein said analogue signal is one of audio or
2 video signals, which can be compressed and/or encoded.

1 19. The network system of claim 10, wherein said identification elements comprise
2 switches for setting unique identities for transmitting and receiving connector
3 arrangements.

1 20. The network system of claim 1, wherein said connector arrangement comprises
2 information member informing about accessibility and/or type of connection.

1 21. The network system of claim 1, said terminals and/or connector arrangements are
2 identical.

1 22. The network system of claim 1, wherein a connector arrangement identifies a
2 network capacity and characteristic before transmitting on the network.

1 23. The network system of claim 1, wherein said network has one of a ring or star-
2 topology.

- 1 24. The network system of claim 1, wherein said terminals are arranged in series
2 and/or parallel.
- 1 25. The network system of claim 1, wherein said network is implemented as one of
2 MOSTnet or IEEE 1394.
- 1 26. The network system of claim 1, wherein said terminal and connector arrangement
2 are integrated.
- 1 27. The network system of claim 1, wherein at said terminals and connector
2 arrangements are powered through same source.
- 1 28. The network system of claim 1, wherein connector arrangements are arranged in
2 said digital and/or analogous device.
- 1 29. The network system of claim 1, wherein the system comprises wireless connection
2 between connector arrangements and/or terminals.
- 1 30. The network system of claim 1, wherein the network is accessed externally.
- 1 31. The network system according to claim 19, wherein said identification element is
2 controlled remotely.
- 1 32. The network system of claim 1, wherein said terminals and connector
2 arrangements are connected wirelessly.
- 1 33. A connector arrangement for use in a network system for inter-connecting a
2 number of receiving and transmitting digital and/or analogous devices, the network
3 system comprising:
4 ▪ a number of receiving and/or transmitting terminals to be connected to said
5 digital and/or analogous devices,
6 ▪ application specific connector arrangements for connecting said digital and/or
7 analogous devices to said terminals, and
8 ▪ at least one of said connector arrangements being arranged to transmit and/or
9 receive data, said at least one connector arrangement containing data at least

10 about required bandwidth, identification and receiving/transmitting device data
11 format,

12 said connector arrangement comprising:

- 13 • a controller,
- 14 • a receiver and/or,
- 15 • a transmitter adopter,
- 16 • identification means, and
- 17 • physical connectors for connecting to said devices.

1 34. The connector arrangement of claim 33 arranged in a digital and/or analogues
2 device.

1 35. A terminal for use in a network system for inter-connecting a number of receiving
2 and transmitting digital and/or analogous devices, the network system comprising:

- 3 ▪ a number of receiving and/or transmitting terminals to be connected to said
4 digital and/or analogous devices,
- 5 ▪ application specific connector arrangements for connecting said digital and/or
6 analogous devices to said terminals, and
- 7 ▪ at least one of said connector arrangements being arranged to transmit and/or
8 receive data, said at least one connector arrangement containing data at least
9 about required bandwidth, identification and receiving/transmitting device data
10 format,

11 said terminal comprising a controller and a transceiver.

1 36. The terminal of claim 35, comprising Control Ports and source ports configured in
2 either serial or parallel mode.

1 37. A method of inter-connecting a number of receiving and transmitting digital
2 and/or analogous devices, the method comprising the steps of providing:

- 3 • a network system,
- 4 • a number of receiving and/or transmitting terminals to be connected to said
5 digital and/or analogous devices,

- 6 • application specific connector arrangements for connecting said digital
7 and/or analogous devices to said terminals, and
- 8 • arranging at least one of said connector arrangements to transmit and/or
9 receive data, wherein at least one connector arrangement contains data at
10 least about required bandwidth, identification and receiving/transmitting
11 device data format.

1 38. A computer program product in a computer unit for controlling and/or monitoring
2 a network system for inter-connecting a number of receiving and transmitting digital
3 and/or analogous devices, the network system comprising:

- 4 ▪ a number of receiving and/or transmitting terminals to be connected to said
5 digital and/or analogous devices,
- 6 ▪ application specific connector arrangements for connecting said digital and/or
7 analogous devices to said terminals, and
- 8 ▪ at least one of said connector arrangements being arranged to transmit and/or
9 receive data, said at least one connector arrangement containing data at least about
10 required bandwidth, identification and receiving/transmitting device data format, said.